

(FILE 'HOME' ENTERED AT 10:55:00 ON 28 OCT 2003)

FILE 'MEDLINE, CAPLUS, BIOSIS' ENTERED AT 10:55:18 ON 28 OCT 2003

L1 13231 S LACTOFERRIN  
L2 260 S L1 AND (ASTHMA OR DIAPER (W) RASH OR CONTACT? (W) DERMATITIS  
L3 77 S L2 AND ASTHMA  
L4 46 DUPLICATE REMOVE L3 (31 DUPLICATES REMOVED)  
L5 30 S L4 AND PY<=1997  
L6 1 S L2 AND DIAPER  
L7 22 S L2 AND DERMATITIS  
L8 11 S L7 AND PY<=1997  
L9 11 S L8 NOT L5  
L10 11 S L8 NOT L6  
L11 15 S L2 AND PSORIASIS  
L12 8 S L11 AND PY<=1997  
L13 5 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)

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L4 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1997:145305 CAPLUS  
 DOCUMENT NUMBER: 126:162307  
 TITLE: Topical preparations containing vitamin C derivatives  
 for treatment of skin inflammations and aging  
 INVENTOR(S): Akyama, Junichi; Yamamoto, Itaru  
 PATENT ASSIGNEE(S): Kaminomoto Honho Kk, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 08333260	A2	19961217	JP 1995-163046	19950606
AB	Vitamin C derivs., i.e. ascorbic acid phosphate salts and ascorbic acid glycosides, are effective for the treatment of skin inflammations and prevention of the aging. Topical prepns. may further contain an anti-inflammatory agent selected from the group consisting of indomethacin, glycyrrhizinic acid, glycyrrhetin, aspirin, and mixts. thereof and a lipid peroxide inhibitory agent selected from the group consisting of vitamin E, .beta.-carotene, <b>lactoferrin</b> , cactus ext., aloe ext., deferoxamine, BHA, BHT, and transferrin. An emulsion contg. L-ascorbic acid 2-glucoside 4, indomethacin 0.1 %, and other ingredients was formulated.				

L4 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1989:619317 CAPLUS  
 DOCUMENT NUMBER: 111:219317  
 TITLE: Transdermal preparations containing immunoglobulin A  
 and **lactoferrin** for treatment of  
**dermatitis**  
 INVENTOR(S): Okada, Tomio; Tanaka, Hiroshi  
 PATENT ASSIGNEE(S): Nonogawa Shoji Y. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 01135726	A2	19890529	JP 1987-292738	19871119
JP 08013754	B4	19960214		

AB Transdermal preps., which have high selectivity for *Staphylococcus aureus*

and are useful for treatment of bacteria-caused or atopic **dermatitis**, contain secretory component-conjugated IgA and **lactoferrin**. White vaselin 40.0, cetanol 10.0, beeswax 5.0, sorbitan sesquioleate 5.0, Lauromacrogol 0.5, Bu p-hydroxybenzoate 0.01, Me p-hydroxybenzoate 0.01, secretory component-conjugated IgA 0.3, and **lactoferrin** 0.5% by wt. were mixed to give an ointment, which was effective for pyoderma and atopic **dermatitis** in humans.

L4 ANSWER 16 OF 27 MEDLINE

DUPLICATE 2

ACCESSION NUMBER: 97147583 MEDLINE

DOCUMENT NUMBER: 97147583 PubMed ID: 8994355

TITLE: Subthreshold UV radiation-induced peroxide formation in cultured corneal epithelial cells: the protective effects of **lactoferrin**.

AUTHOR: Shimmura S; Suematsu M; Shimoyama M; Tsubota K; Oguchi Y; Ishimura Y

CORPORATE SOURCE: Department of Ophthalmology, Keio University School of Medicine, Tokyo, Japan.

SOURCE: EXPERIMENTAL EYE RESEARCH, (1996 Nov) 63 (5) 519-26.  
Journal code: EPL; 0370707. ISSN: 0014-4835.

PUB. COUNTRY: ENGLAND: United Kingdom  
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199701

ENTRY DATE: Entered STN: 19970219

Last Updated on STN: 19970219

Entered Medline: 19970130

AB Acute exposure to suprathreshold ultraviolet B radiation (UV-B) is known to cause photokeratitis resulting from the necrosis and shedding of corneal epithelial cells. however, the corneal effects of low dose UV-B in

the environmental range is less clear. In this study, subthreshold UV-B was demonstrated to cause non-necrotic peroxide formation in cultured corneal epithelial cells, which was attenuated by the major tear protein **lactoferrin**. Intracellular oxidative insults and cell viability of rabbit corneal epithelial cells (RCEC) were assessed by dual-color digital

microfluorography using carboxydichlorofluorescein (CDCFH) diacetate bis (acetoxymethyl) ester, a hydroperoxide-sensitive fluoroprobe, and propidium iodide (PI), respectively. The magnitude of **UV-induced** oxidative insults was calibrated by concentrations of exogenously applied H<sub>2</sub>O<sub>2</sub> which evoke compatible levels of CDCFH oxidation.

Exposure of RCEC to low-dose UV-B (2.0 mJ cm<sup>-2</sup> at 313 nm, 10.0 mJ cm<sup>-2</sup> total UV-B) caused intracellular oxidative changes which were equivalent to those elicited by 240 microM hydrogen peroxide under the conditions of the study. The changes were dose dependent, non-necrotic, and were partially inhibited by **lactoferrin** (1 mg ml<sup>-1</sup>) but not by iron-saturated **lactoferrin**. Pretreatment with deferoxamine (2 mM) or catalase (100 U ml<sup>-1</sup>) also attenuated the **UV-induced** oxidative stress. The results indicate that UV-B comparable to solar irradiation levels causes significant intracellular peroxide formation in corneal epithelial cells, and that **lactoferrin** in tears may have a physiological role in protecting the corneal epithelium from solar UV irradiation.

L4 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1996:612679 CAPLUS

DOCUMENT NUMBER: 125:230803

TITLE: Pharmaceutical and cosmetic compositions containing histamine and interleukin and .alpha.-tumor necrosis factor antagonists

INVENTOR(S): De Lacharriere, Olivier; Breton, Lionel; Cohen, Catherine

PATENT ASSIGNEE(S): Oreal S. A., Fr.

SOURCE: Can. Pat. Appl., 25 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CA 2166179	AA	19960629	CA 1995-2166179	19951227
FR 2728793	A1	19960705	FR 1994-15796	19941228
FR 2728793	B1	19970207		
EP 729750	A1	19960904	EP 1995-402677	19951128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE				
JP 08231432	A2	19960910	JP 1995-341294	19951227
US 5658581	A	19970819	US 1995-580291	19951228
US 5993833	A	19991130	US 1997-879889	19970620
PRIORITY APPLN. INFO.:			FR 1994-15796	19941228
			US 1995-580291	19951228
AB	The title compns. are disclosed. A lotion contained cetirizine 0.001, antioxidants 0.05, isopropanol 40.00, preservatives 0.30, and water q.s. 100%.			

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(FILE 'HOME' ENTERED AT 09:16:00 ON 01 JUN 2001)

FILE 'MEDLINE, CAPLUS, BIOSIS' ENTERED AT 09:16:15 ON 01 JUN 2001

L1 11130 S LACTOFERRIN  
L2 510259 S INFLAMMAT?  
L3 5 S ANTIINFLAMMAT?  
L4 97544 S ANTI-INFLAMMAT?  
L5 135 S L1 AND L4  
L6 64 S L5 AND LACTOFERRIN/TI  
L7 9 S L6 AND ANTI-INFLAMMAT?/TI  
L8 7 DUPLICATE REMOVE L7 (2 DUPLICATES REMOVED)  
L9 54106 S ALLERGEN  
L10 5428 S L9 AND L2  
L11 1602 S L10 AND ALLERGEN/TI  
L12 436 S L11 AND INFLAMMAT?/TI  
L13 60 S L12 AND (CLASS? OR TYPE) (S) INFLAMMAT?  
L14 32 DUPLICATE REMOVE L13 (28 DUPLICATES REMOVED)  
L15 7 S L14 AND PY<=1996  
L16 9 S L5 AND ALLERGEN (W) INDUCED  
L17 4 DUPLICATE REMOVE L16 (5 DUPLICATES REMOVED)

=> s l1 and l2

L18 1204 L1 AND L2

L10 ANSWER 9 OF 11 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1996:15421 BIOSIS

DOCUMENT NUMBER: PREV199698587556

TITLE: Effects of bovine kappa-casein and **lactoferrins** on several experimental models of **allergic** diseases.

AUTHOR(S): Otani, H.; Yamada, Y.

CORPORATE SOURCE: Lab. Applied Biochemistry Animal Products, Faculty Agriculture, Shinshu Univ., Minamiminowa-mura 399-45, Japan  
Milchwissenschaft, (1995) Vol. 50, No. 10, pp. 549-552.

SOURCE: CODEN: MILCAD. ISSN: 0026-3788.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 12 Jan 1996

Last Updated on STN: 12 Jan 1996

AB Effects of bovine kappa-casein, **lactoferrin** and peptic **lactoferrin** on vascular permeability, in vitro histamine release, complement-dependent cytolysis, reversed passive Arthus reaction, picryl chloride-induced **contact dermatitis** and delayed-type hypersensitivity were studied using experimental animal models. All proteins tested, ie., kappa-casein, **lactoferrin** and peptic **lactoferrin**, increased the vascular permeability in guinea pigs. kappa-Casein and **lactoferrin** obviously inhibited in vitro histamine release from rat mast cells, whereas peptic **lactoferrin** did not. Moreover, **lactoferrin** inhibited complement-dependent cytolysis to sheep red blood cells (SRBC) in a dose-dependent fashion, whereas kappa-casein and peptic **lactoferrin** had no effect. Arthus reaction, picryl chloride-induced **contact dermatitis** and delayed-type hypersensitivity to SRBC were not modulated by any of these 3 proteins. These results indicate that bovine kappa-casein and **lactoferrin** suppressed a passive cutaneous anaphylactic reaction via inhibiting the vasoactive amine release whereas these same proteins had no effect on the Arthus reaction or delayed-type hypersensitivity.

L4 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2001 ACS  
 ACCESSION NUMBER: 1993:131791 CAPLUS  
 DOCUMENT NUMBER: 118:131791  
 TITLE: Lipid peroxide formation inhibitors containing  
**lactoferrin** for cosmetics, food, and  
 pharmaceuticals  
 INVENTOR(S): Tomono, Norihiro; Chikamatsu, Yoshihiro; Hasebe,  
 Kohei; Inagaki, Masaki; Ando, Yutaka  
 PATENT ASSIGNEE(S): Ichimaru Pharcos Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
	JP 04334310	A2	19921120	JP 1991-130662	19910501
AB	Lipid peroxide formation inhibitors contg. <b>lactoferrin</b> as an active ingredient are claimed. Bovine <b>lactoferrin</b> at 0.1% showed 100% inhibition on <b>UV-induced</b> peroxidn. of linoleic acid. A peel-off pack contg. H2O 66.5, glycerin 5.0, propylene glycol 4.0, poly(vinyl alc.) 15.0, EtOH 8.0, polyoxyethylene glycol 1.0, p-HOC6H4CO2Me 0.2, perfume 0.2, and <b>lactoferrin</b> 0.1 wt.% was prepd.				



L8 ANSWER 6 OF 7 MEDLINE DUPLICATE 1  
ACCESSION NUMBER: 96001603 MEDLINE  
DOCUMENT NUMBER: 96001603 PubMed ID: 8526014  
TITLE: **Anti-inflammatory** capacities of human  
milk: **lactoferrin** and secretory IgA inhibit  
endotoxin-induced cytokine release.  
AUTHOR: Hanson L A; Mattsby-Baltzer I; Engberg I; Roseanu A;  
Elverfors J; Motas C  
CORPORATE SOURCE: Department of Clinical Immunology, University of Goteborg,  
Sweden.  
SOURCE: ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1995) 371A  
669-72.  
Journal code: 2LU; 0121103. ISSN: 0065-2598.  
PUB. COUNTRY: United States  
Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199601  
ENTRY DATE: Entered STN: 19960219  
Last Updated on STN: 19970203  
Entered Medline: 19960124

L8 ANSWER 7 OF 7 MEDLINE DUPLICATE 2  
 ACCESSION NUMBER: 95282643 MEDLINE  
 DOCUMENT NUMBER: 95282643 PubMed ID: 7762426  
 TITLE: The role of **lactoferrin** as an anti-  
                     **inflammatory** molecule.  
 AUTHOR: Britigan B E; Serody J S; Cohen M S  
 CORPORATE SOURCE: Department of Internal Medicine, VA Medical Center, Iowa  
                     City, Iowa, USA.  
 CONTRACT NUMBER: AI28412 (NIAID)  
                     AI92959 (NIAID)  
                     HL44275 (NHLBI)  
 SOURCE: ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY, (1994) 357  
           143-56. Ref: 102  
           Journal code: 2LU; 0121103. ISSN: 0065-2598.  
 PUB. COUNTRY: United States  
                     Journal; Article; (JOURNAL ARTICLE)  
                     General Review; (REVIEW)  
                     (REVIEW, ACADEMIC)  
 LANGUAGE: English  
 FILE SEGMENT: Priority Journals  
 ENTRY MONTH: 199506  
 ENTRY DATE: Entered STN: 19950707  
                     Last Updated on STN: 20000303  
                     Entered Medline: 19950623  
 AB The formation of hydroxyl radical via the iron catalyzed Haber-Weiss  
     reaction has been implicated in phagocyte-mediated microbicidal activity  
     and inflammatory tissue injury. The fact that neutrophils contain  
     **lactoferrin** and mononuclear phagocytes have the capacity to  
     acquire exogenous iron has suggested that iron bound to  
     **lactoferrin** may influence the nature of free radical products  
     generated by these cells. Over the years the iron-**lactoferrin**  
     complex has been heralded as both a promoter and inhibitor of hydroxyl  
     radical formation. This manuscript is intended to provide an overview of  
     work performed to date related to this controversy and to present results  
     of a number of preliminary studies which shed further light on the role  
 of **lactoferrin** in inflammation.

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:382957 CAPLUS

DOCUMENT NUMBER: 134:40716

TITLE: **Anti-inflammatory** and immunoregulatory properties of **lactoferrin**

AUTHOR(S): Brock, Jeremy H.; Guillen, Cristina; Thompson, Claire

CORPORATE SOURCE: Department of Immunology and Bacteriology, University of Glasgow, Western Infirmary, Glasgow, G11 6NT, UK

SOURCE: Int. Congr. Ser. (2000), 1195(Lactoferrin: Structure, Function and Applications), 119-128

CODEN: EXMDA4; ISSN: 0531-5131

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review with 59 refs. A variety of **anti-inflammatory** and immunomodulatory effects have been reported for **lactoferrin**. These include binding of free iron at sites of local inflammation, modulation of T and B lymphocyte proliferation and maturation, regulation of NK cell activity, and modulation of cytokine prodn. These are related here to the biochem. properties of **lactoferrin**, in particular, its ability to bind iron and to interact with other mols. and cell surfaces. The regulation of **lactoferrin** synthesis and release by neutrophils is discussed. Also, the occurrence of anti-**lactoferrin** autoantibodies is discussed, as well as the effect of antibodies on the iron-binding properties of **lactoferrin**. At physiol. pH (7.4) antibodies prevent iron binding but do not release iron already bound. In contrast, at pH 5 antibodies induce release of iron from **lactoferrin**. Thus, antibodies may interfere with the ability of **lactoferrin** to sequester potentially toxic free iron at sites of inflammation.

REFERENCE COUNT: 59

REFERENCE(S): (1) Afeltra, A; Clin Exp Immunol 1997, V109, P279  
CAPLUS

(2) Afeltra, A; Endocrine Res 1998, V24, P185 CAPLUS

(4) Brock, J; Adv Exp Biol Med 1998, V443, P305

CAPLUS

(5) Brock, J; Immunol Today 1995, V16, P417 CAPLUS

(6) Brock, J; J Nutr Immunol 1993, V2, P47 CAPLUS

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 JPO Abstracts Database  
 EPO Abstracts Database  
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Terms	Documents
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<u>L10</u>	L9 and l2	3	<u>L10</u>
<u>L9</u>	Interleukin-1 adj antagonist\$	61	<u>L9</u>
<u>L8</u>	Interleukin-1 adj antagonists	61	<u>L8</u>
<u>L7</u>	L6 and l2	18	<u>L7</u>
<u>L6</u>	asthma	27921	<u>L6</u>
<u>L5</u>	L4 and l2	22	<u>L5</u>
<u>L4</u>	L3 and allergen	1499	<u>L4</u>
<u>L3</u>	inflammatt\$ or antiinflammatt\$	105086	<u>L3</u>
<u>L2</u>	lactoferrin\$	1377	<u>L2</u>
<u>L1</u>	2596986 or 2641696	34	<u>L1</u>

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